CONS 70B Course Outline as of Fall 2019

CATALOG INFORMATION

Dept and Nbr: CONS 70B Title: PROJ ORG & MGT Full Title: Project Organization and Management Last Reviewed: 11/26/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.50	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	1.50	Lab Scheduled	2.00	4	Lab Scheduled	35.00
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 87.50

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:

Developing construction project management skills including quantity surveying, cost estimating, and project scheduling, using software such as Microsoft Project, Excel, and industry accepted cost estimating tools.

Prerequisites/Corequisites: Course Completion of CONS 70A

Recommended Preparation: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:

Description: Developing construction project management skills including quantity surveying, cost estimating, and project scheduling, using software such as Microsoft Project, Excel, and industry accepted cost estimating tools. (Grade Only) Prerequisites/Corequisites: Course Completion of CONS 70A Recommended: Eligibility for ENGL 100 or ESL 100 Limits on Enrollment:

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree: CSU GE:	Area Transfer Area			Effective: Effective:	Inactive: Inactive:
IGETC:	Transfer Area			Effective:	Inactive:
CSU Transfer:	Transferable	Effective:	Fall 2002	Inactive:	
UC Transfer:		Effective:		Inactive:	

CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

- 1. Prepare a preliminary quantity survey and estimate for a complete or portion of a building.
- 2. Prepare a preliminary schedule for a simple construction project.

Objectives:

At the conclusion of this course, the student should be able to:

- 1. Identify and research elements for a quantity survey and estimate
- 2. Prepare a preliminary quantity survey and estimate
- 3. Identify and research elements for a construction schedule
- 4. Prepare a preliminary construction schedule

Topics and Scope:

- I. Introduction and Overview
 - A. Review of the construction project cycle
 - B. Review of elements of quantity surveying and role in the construction process
 - C. Review of elements of estimating and role in the construction process
 - D. Review of elements of scheduling and role in the construction process
- II. Preparation for estimating and scheduling
 - A. Examination of working drawings and specifications
 - B. The sequence of basic construction operations
 - C. Examination of quantity survey and estimating documents
 - D. Examination of scheduling documents
 - E. Sequence in construction project cycle

III. Quantity surveying

- A. Sequence and role in construction project cycle
- B. Principles of quantity surveying
- C. Elements of a quantity survey
- D. Documenting a quantity survey

- E. Case studies and applications
- IV. Estimating
 - A. Sequence and role in construction project cycle
 - B. Principles of estimating
 - C. Types of estimates
 - D. Elements of an estimate
 - E. Documenting an estimate
 - F. Case studies and applications
- V. Scheduling
 - A. Sequence and role in construction project cycle
 - B. Principles of scheduling
 - C. Types of schedules
 - D. Elements of a schedule
 - E. Documenting a schedule
 - F. Case studies and applications

Topics and Scope apply to both lecture and lab course components in an integrated format.

Assignment:

- 1. Reading (20-30 pages per week)
- 2. Exercises and problem solving assignments (6-12)
- 3. Written assignments involving analysis and synthesis of course material (6-12)
- 4. Final exam and/or final project with presentation

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written assignments, and documentation of final project - if any

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Exercises and problem solving assignments such as preparing portions of a quantity survey, estimate, and schedule

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Exams: All forms of formal testing, other than skill performance exams.

Writing 15 - 30%

Problem solving
40 - 70%

Skill Demonstrations 0 - 0% Quizzes and final exam

Other: Includes any assessment tools that do not logically fit into the above categories.

Class participation and presentation of final project

Representative Textbooks and Materials:

Construction Project Management: A Complete Introduction. 2nd ed. Dykstra, Alison. Kirschner Publishing. 2018

Managing the Construction Process. 4th ed. Gould, Frederick. Pearson. 2011 (classic) Instructor prepared materials

Other Category
0 - 20%

Exams 10 - 30%

20% υ